THE TECH

VOL. XXVIII. No. 57 BOSTON, MASS., WEDNESDAY, MARCH 17, 1909 PRICE THREE CENTS

MR. DUBOIS TALKS ON SALTING MINES

Philadelphia Mining Expert Gives Interesting Description

MEANS OF DETECTION

Told of Before Society of Arts Meeting Monday Evening—Good Attendance

At the meeting of the Society of Arts Monday evening, Mr. H. W. Dubois spoke on "The Determination of 'Salting' in Mine Investigation."

The term "salting" may almost cover any dishonest misrepresentation of the true value of the mine. This may be done with the object of selling the mine at more than its real value, or the mine may be "salted down," that is, made to appear worth less than it really is, for the purpose of discouraging the stockholders to such an extent that they will sell their shares to the advantage of the designers.

The ways in which "salting" may be done are too numerous to mention. The most usual are: to distribute a large quantity of superior ore throughout the mine, so that upon examination the apparent ore of the mine will show a much higher percentage of the metal than is really present; to bribe the examining engineer so that he will return a favorable report; to change the reports either in part or wholly, or to add ore to the engineer's samples. This latter methor is the easiest and the most often attempted.

As a means of detecting possible "salting," one method which often succeeds is to put samples of ore of a known value in tempting places, and later examine them to see if they have been tampered with. Also, it is a good plan to examine the ore of the surrounding country, and see if it compares in grade with that which is being tested. It is better to take a large number of small samples from many parts of the mine rather than to get a small number of large ones. There is really no absolute means for the prevention or detection of "salting," and the examining engineer must be constantly alert and guard the samples obtained with the utmost vigilance. Naturally he is at a great advantage, and the short time he has for the examination of the mine should be considered, as compared with the time the owners have had for "preparing" it.

Mr. Dubois concluded his lecture by showing some admirable lantern slides of the animal life of the district in which he has been.

SEDGWICK CONSULTED

Professor Sedgwick, head of the biology department of the Institute, together with the engineering firm of Hazen & Whipple of New York, and a number of prominent sanitary engineers, has been recently engaged by the Jersey City Street and Water Board to investigate and report upon the purchase of the $7,595,000 water plant, now under construction and adjustment in that city. The plan was approved by the engineers in charge, and has just received the sanction of Mayor Wittpenn of Jersey City, in an address to the taxpayers, urging the payment into court of the contract price, and leaving to the court the fixing of whatever deduction that shall be made from that sum. As a result the 50,000,000 gallons per day plant now owned by the Jersey City Water Supply Company will be taken over and operated by the city.

AMHERST WINS BY SCORE OF 32-13

Technology's Defeat Partly Due to Sickness of R. C. Jacobs

ATTENDANCE VERY BAD

Fine Exhibitions by Both Teams Given Before Scarcely Seventy-Five

In spite of a splendid showing for the first meet of the year, the Gym was defeated by Amherst by a score of 32-13. Handicapped by sickness of one member, and having but one entry in the Club Swinging, the team put up a game fight against the more experienced Amherst aggregation.

Captain Shoop and Tritch of Amherst were the star performers of the evening, while Gott excelled for Technology. Allen, Tech, did some splendid work on the High Bar.

Side Horse: Goodnow A. 22.7; Cary T. 21.7; Underhill A. 21.2; Alter T. 17.7.

High Bar: Allen T. 21.8; Gott T. 21.2; Wakelee A. 21.2; Whitten A. 20.2.

Tumbling: Baldwin A. 20.7; Tritch A. 20.4; Wilson T. 19.2; Jacobs T. 6.0.

Club Swinging: Shoop A. 7.7; Whitten A. 7.5; Courtney T. 6.3.

Parallel Bars: Tritch A. 21.0; Shoop A. 20.9; Gott T. 20.5; Seelye T. 19.2.

Counting each first place 5, second 3, and third 1, makes up the total score of 32-13.

A duel meet has been arranged with the Boston Y. M. C. A., which will take place in the near future, probably March 31. An exhibition meet with Newton has been arranged, but no date set as yet.

BERTIN TO LECTURE

French Naval Constructor Will Give Course Here Soon

Mr. E. L. Bertin, Chief Constructor, retired, of the French navy, is to give a special course of lectures for the naval architects early in April. M. Bertin is a member of several of the prominent professional societies of France, and he is well known for his work in this field. He is coming over here on a flying visit specially to give these lectures, and he will return to France on their conclusion. The details of the lectures have not been decided upon, as yet, but full particulars will be given out a week or two before the course begins.

MEETING OF THE A. A.

At the regular meeting of the M. I. T. A. A. yesterday afternoon, a committee reported on the proposed season tickets to be issued for next year. The report was approved and submitted to the advisory Council on Athletics for their approval. The idea is that the owner of a season ticket will be admitted to all the track meets, including Field Day, with the exception of the N. E. I. A. A. games, which do not come under the jurisdiction of the Institute, to all the home basket ball, hockey, gym and fencing meets. The A. A. will for their part guarantee at least one dual meet during the year, five basket ball games, and three fencing meets, besides the Fall and Spring meets.

These tickets will be printed and circulated before the end of the year in order to dispose of some during alumni week and as many as possible to the undergraduates before they leave.

A large quantity of cinders have been put on the track and arrangements are under way for regular rolling of the track.

The executive committee of the corporation has made an appropriation for installing water pipes at the Field so that the trackway be watered regularly.

INVESTIGATION OF OTHER RESTAURANTS

Student Government at Dartmoth and Harvard Has Failed

NEED EXPERT TRAINING

Filene Co-operative Society Make Success of Low Priced Dining Room

Appalled by the disastrous state of affairs in the Union, as outlined in the financial statement recently issued by Bursar Rand, the Tech has been investigating the management of the dining rooms. The results to date are as follows:

Dartmouth and Harvard Fail.

At Dartmouth the dining room was originally run by students. The experiment was a failure, and student management had to be given up. The present manager says that he knows of no college dining room successfully run by students.

Within a few weeks the Harvard dining halls, because of financial difficulties and general dissatisfaction, were withdrawn from the management of the undergraduates.

From Yale comes the report that the dining room there is run successfully by students, with a small profit. A professional manager is employed, but no information was received as to his powers and privileges.

Filene's Store Big Success.

The restaurant in Filene's Sons Co. Department Store, recommended by the manager of the Dartmouth Dining Hall as being as near the ideal cooperation dining room as he knew of, has been particularly investigated.

The eight hundred or more employees of the company have organized as the "Filene Co-operative Association." The dining room and adjoining social rooms, loaned them by the company, are meintained by them for their own benefit. Like the Union, there is no charge for light, heat or rent.

Success Due to Co-operation.

A Club House Committee of five members is in charge of the dining room, and makes monthly reports to a council that is elected by the Association. All questions of general policy in regard to the dining room are passed upon and decided by the committee. Technically the committee has full charge of the dining room, even in details; but for the last two years these powers have not been exercised. A woman, grown up in the restaurant business, has been put in charge as manager. She hires the help, does the buying, and fixes the prices, whether they are the same from day to day, or fluctuate with the market. The committee has left her to do this because it considers that as she has had more experience in that line, she will make a success where they would make a failure. Two years ago the reverse was the policy, and as a result the dining room was badly in debt, as is the Union now. In the last two years, under the new policy, and the new manager, not only has the debt been paid off, and the running expenses of the dining room and club rooms met, but a sinking fund of $1000 is nearing completion. Once the fund is actually completed, the committee has determined to make a reduction in prices, so as to make just enough profit to maintain the various club rooms. Twice during the last two years, while making up the debt and the sinking fund, have the prices been lowered.

Low Prices—Good Food.

Meanwhile out of 800, about 80 per cent. of the employees are eating their lunches there—an enormous increase over the attendance of two years ago. Prices are lower than elsewhere in the city, the quality is just as good, and the quantity for the price is astonishing. It is the policy of the committee

(Continued on page 3.)

MR. W. R. C. BOYD ON STEAM TURBINES

Technology Graduate Tells of Turbine Troubles and Causes

E. E. SOCIETY MEETING

Large Number of Mechanicals and Civils Were Present on Invitation

The Electrical Engineering Society met last night at the Union, members of the Mechanical and Civil Engineering Societies also being present. Mr. F. R. C. Boyd, '01, turbine expert and designer for the General Electric Company, at West Lynn, spoke on "Steam Turbine Troubles."

He mentioned a number of troubles arising from mechanical and electrical imperfections, and suggested remedies for each. Vibration may be due to faulty bearings, to rubbing of rotating parts, to warping of parts, to lack of balance, or alignment, to wrong field connection, or other imperfections. As Mr. Boyd pointed out, the main difficulty lies in finding the cause of fault, and this is done by elimination tests. After the talk Mr. Boyd told of several odd experiences met upon the road.

President John Mills, 1909, suggested a farewell dinner to Professor Clifford, to be held at the American House on May 6. It was voted that the dinner be served at $1.50 per plate.

Section 8 of the Bye-Laws was also amended to provide for an Election Committee of five to be elected at the March meeting. The following were elected: John Mills, 1909, F. J. Lange, 1909, R. S. Dodge, 1910, L. T. Hemmenway, 1910, and P. M. Bramhall, 1910.

Mr. Fowler, representing "Power," spoke for a few minutes upon the articles to appear in that paper, and offered the journal to Tech students at the special subscription price of $1.50.

RUSSELL WRITES BOOK

Prof. G. E. Russell is preparing manuscript for a text-book on Hydraulics to appear somme time early in the summer. Its basis is a set of lithograph notes which have been used in Institute courses during the last two years. The purpose of the author s to present to the teaching profession a book primarily written as a text-book, but so filled with references as to be of value to the practicing engineer. The subject matter includes a discussion of hydrostatics and all the more important parts of hydrodynamics. No attempt will be made to introduce abbreviated, and consequently incomplete, treatment of hydraulic motor and machinery as the author believes that such matter needs to be handled in a separate volume.

CATHOLIC CLUBS MEET

The Catholic Club met yesterday evening at eight o'clock, in the Union. Father Patterson, Vicar-General of the Boston diocese, gave a splendid talk on "Co-operation," and plans were discussed for a banquet to be held late this school year. The next meeting of the Club will be held March 30.

CALENDAR

WEDNESDAY, MAR. 17.

1.15 P. M. Tech Board in 30 C.

THURSDAY, MAR. 18.

4.15 P. M. Cosmic Physics.

1.00 P. M. T. P. A. Meeting, Room A.

FRIDAY, MAR. 19.

8.30 P. M. Show Posters out.

THE TECH

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Editorial Staff.

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W. O. WHITNEY 1911 — *Business*

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Wednesday, March 17, 1909.

The Tech takes pleasure in announcing the appointment of George Ellery Washburn, 1903, to the news staff.

DINING ROOMS

Two features, one doubtful case, and one huge success! Dartmouth and Harvard could not make good. Yale did not give enough information to tell just how much voice the student committee had in the management of their dining room. But, beyond a doubt, the Filene Co-operative Association has succeeded admirably.

It has succeeded, as described in another column, because of co-operation between the manager and the committee in charge, and because that committee realized its limitations.

The Union Dining Room was intended to provide Tech students with good food at lower prices than could be obtained elsewhere. So far the Union has not done this. Other restaurants in the city, in the business for money, are beating it. Were other dining rooms in the city as available as is the Union, the present patronage of the Union would decrease by more than half.

The Tech recommends for the careful consideration of the Union Committee, the advisability of abolishing the present Dining Room Committee and appointing a committee of not more than five members chosen from the three upper classes. It recommends, also, the employment of a professional manager, who shall follow a general policy laid down by the Committee, but who shall be left to work out minor details.

The Tech believes thoroughly in student management as far as feasible; but it does not believe that a committee of inexperienced men, including men just out of high school, can successfully plan the details of a large restaurant.

Moreover, it does not believe that the rights and privileges of the majority of the men here should be sacrificed, in whole or in part, for the benefit or the education or experience of a very small number.

In view of the victory of the fencing team over Yale and Harvard on last Saturday night, it would seem that our team has more than a possible chance of winning the championship in New York.

The team has been working steadily in the past, and the efforts of each individual man and of Mr. Fournon, who has been more than persevering, have been well rewarded by each successive victory. The narrow margin by which our team won from Yale only emphasizes the need of more persistent practice.

In this connection, it is most unfortunate that in spite of the successive victories, the team has not been more loyally supported financially. The expenses of the Springfield, Columbia and Pennsylvania meets, and those of the delegate to New York, have been a most severe tax on its resources. At the present time there is not enough on hand to enable the team to be represented at New York, inasmuch as this necessitates numerous expenses for the team, its manager, and the coach.

It is the hope of the management that the students will heartily co-operate in defraying this expense by small individual subscriptions.

ELECTRICAL NOTES

Prof. Shadd Will Take Seniors on Annual Inspection Trip

Professor Geo. C. Shaad is revising his section on electric lighting in the text-book of the American School of Correspondence.

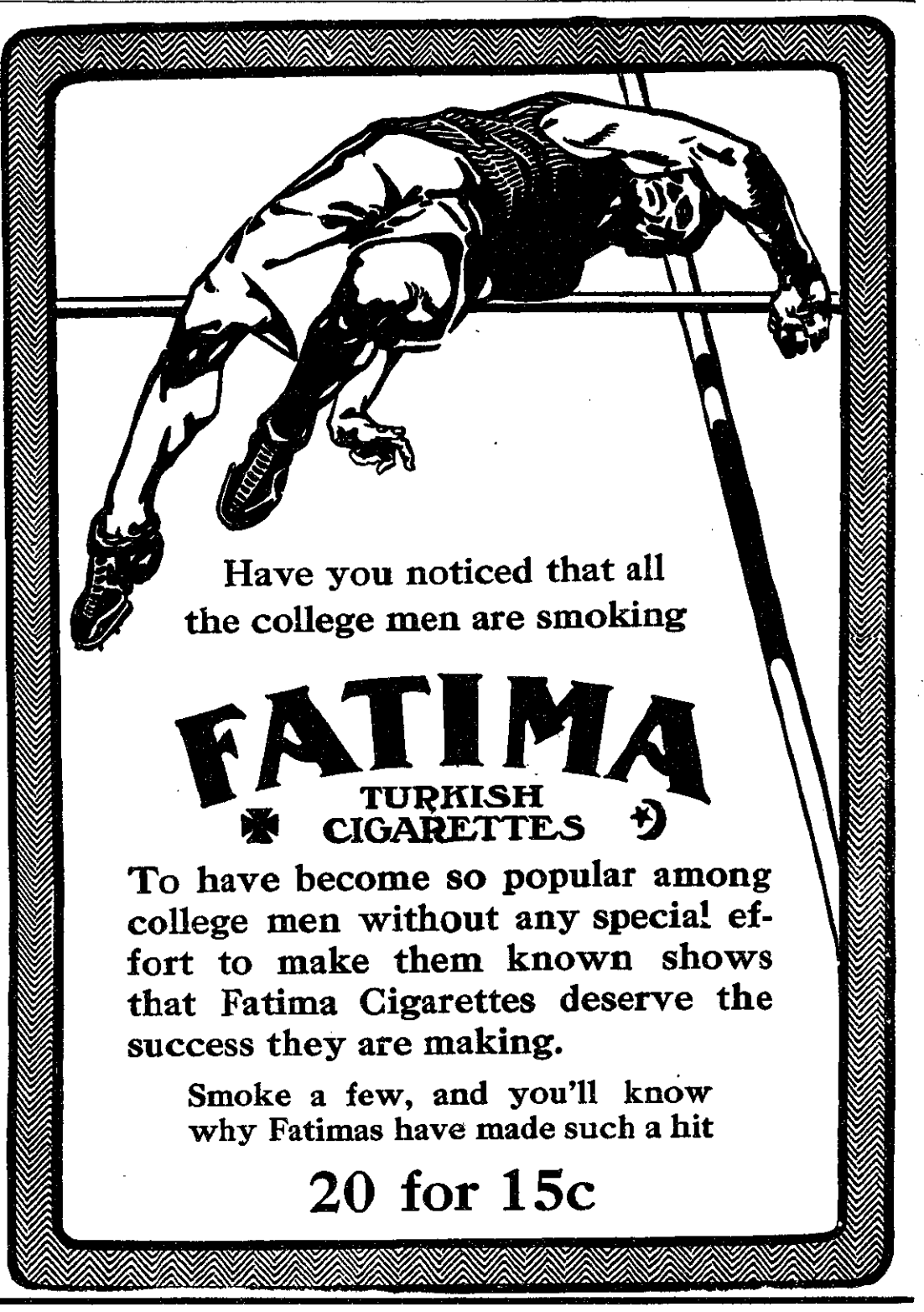
Wednesday evening the Boston section of the American Institute of Electrical Engineers will meet in the auditorium of the Edison building, 39 Boylston Street, to listen to a talk by Dr. Charles P. Steinmetz of the General Electric Company, on "Prime Movers." Non-members are cordially invited to attend.

An inspection of the present location of the graduates in electrical engineering of the class of 1908 shows that they are distributed throughout thirteen states in the United States as well as in the Philippine Islands, Canada, Europe and Australia. Ten per cent. of the class are in teaching positions and one student is taking a graduate course at the Institute.

Professor D. C. Jackson will soon publish a report as to the advisability of installing a Municipal Electric Lighting Plant in the town of Brookline.

The Senior Class in Electrical Engineering will leave on Tuesday, March 24th, for the annual inspection trip. The party under the direction of Professor G. C. Shaad will spend Wednesday and Thursday of that week at the works of the General Electric Company, at the sub-station of the Schenectady Railway Company and at the works of the American Locomotive Company. On Friday and Saturday, the party will move on to Niagara Falls where the plants of the Niagara Falls Power Company, the Ontario Power Company, the Niagara Falls Hydraulic Power and Manufacturing Company and the International Paper Company will be visited. Arriving in Buffalo on Monday, March 29th, the day will be spent in the Buffalo sub-station, the Buffalo Smelting works and the plant of the Lackawanna Steel Company. They will leave Buffalo for Boston the same evening.

Hamilton W. Mabie, in a recent number of the Ladies' Home Journal, named Prof. Arlo Bates as one of the eight best poets in the country today.



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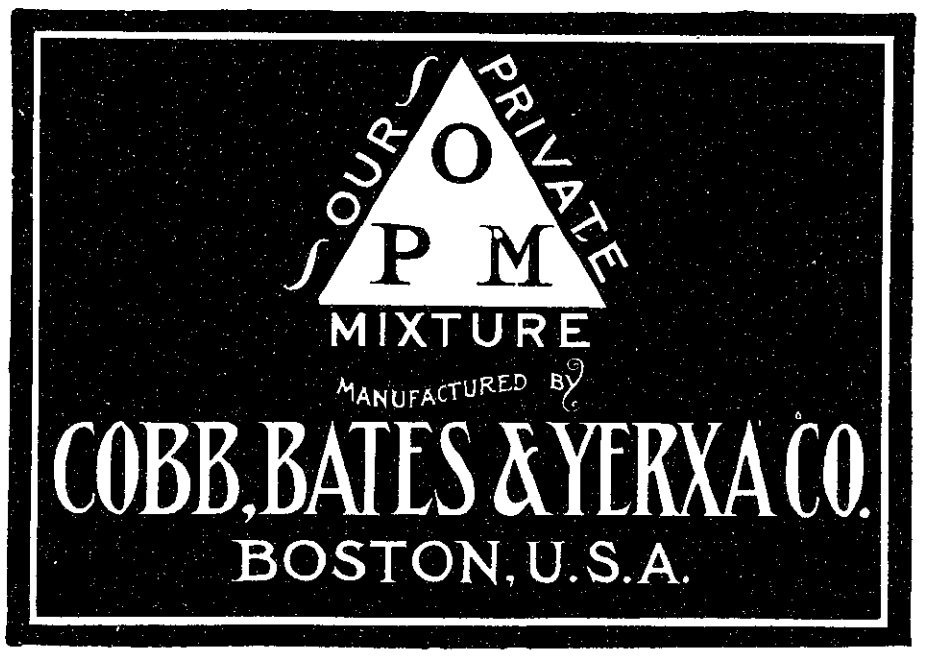
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RESTAURANTS

(Continued from page 1.)

to sell the cheap, nourishing necessities below cost, in order that those employees who can afford only a very small sum for lunch may have plenty of good food to eat. All profit is made on people who spend about twenty cents or more.

There is cooking to order, and the daily list is several times as long as that of the Union. Meals can be purchased from the time the store opens in the morning to the time it closes at night. Evening dinners are often served. The service is cafeteria.

Briefly, the Filene dining room is run successfully by co-operation between the committee and the manager. The company has no voice in the matter at all. The committee, inexperienced, realizes that it does not know the restaurant business, and, accordingly, leaves the details to the manager, and directs the general policy only. The result is a money-making proposition. At the same time, better and more food is served at lower prices than elsewhere in the city. A very large proportion of the employees eat their meals there, and endorse it right up to the handle. The aim is the same as that of the Union, the results are different.

WILL BUY FOSSILS

Institute Men Interested in Land at East Braintree

Several members of the geological department are interested in a proposal to purchase a tract of land containing valuable specimens. The land is at East Braintree, and quite near the head of tidewater of the Fore River. An outcropping ledge of primordial rock, about as old as any geological specimens extant in this part of the continent, contains trilobite fossils in large numbers. The first person to call attention to this was President William B. Rogers, the founder of the Institute of Technology. Dr. John Dixwell has within the past year been organizing a movement to preserve the ledge, which is now threatened by an adjacent quarry, and by purchasing the land, to keep it clear forever for the purposes of study and comparison by scientific students. Prof. W. O. Crosby has been an ardent indorser of the plan since its inception, and has made one proposal, to wit, that the land be purchased by public-spirited citizens and turned over to the Metropolitan Park Commission. Dr. Dixwell has been engaged in interesting scientific societies in the project, and its ultimate consummation is assured. Of the Institute staff, Professors Jaggar, Daly, Loughlin and Skinner, and Messrs. Clapp and Allen, as well as Professors Crosby, Niles and Warren, are interested in the scheme.

SHOW MAKES PROGRESS

The pictures of the chorus and principals in costumes have been taken, and it was the general opinion that this year's chorus contained more "queens" than even the chorus last year could boast. The cast is no exception to the rule. "Cherub" Belden as Elfrida is prettier than ever in a dream of a pink gown, while Ray Allen has a costume which does not in any way detract from his diminutive proportions. The dancers in their Spanish costumes were extremely dainty.

The following songs have been added to the score as published recently:—Burgomaster song, lyric by Dudley Chapp 1910, music by O. B. Danison 1911, "Boylston Blond," lyric by C. C. Vose 1911, music by Charles Lawton Tuller 1912, Finale Act I, lyric by Dudley Clapp, music by J. L. Champagne 1912, Opening Chorus, Act II, lyric by Dudley Clapp, music b O. B. Denison, "A Beer Song" lyric by C. B. Busey 1912, music by J. L. Champagne, Spanish Dance by H. A. Hale 1910, "The Gamme of Leve" lyric by E. C. Vose, music by J. L. Champagne.

There will be a Hare and Hounds run Saturday at Waban for Waban School. The men will have the use of a shower bath and it is quite possible that a special car may be arranged for.

A cross country dinner will be held at the Union following the run.

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ALL SOPHOMORES who have not paid their class dues to date should do so before next Friday night in order to be eligible for the Technique electoral committee. Dues can be paid to any of the following men: Barr I, Coffin II, Nash I, Cooley X, Cornell XIII, Hobson X, Faunce VI, Odell VIII, Kimball VI, H. D. Williams XI, Hodge V, Grossman III. Also, either Salisbury, Parker or Copeland will be in the Union every day this week from 1 to 2 to take care of any men who are unable to see a collector, and also those men who have not yet signed the constitution.

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FACULTY NOTICES

A number of instructors in the Modern Language Department have arranged to hold conferences in French II and German II as follows:—

FRENCH II

Professor Bigelow—Mondays from 12 to 1 and Thursdays from 10 to 11 in Room 31, Lowell.

Mr. Blachstein—Tuesdays and Thursdays from 10 to 11, in Room 22 Lowell.

Mr. Dike—Tuesdays from 11 to 12 in Room 24, Lowell, and Saturdays from 11 to 12 in Room 23, Lowell.

GERMAN II

Professor Vogel—Tuesdays from 10 to 12, and Saturdays from 10 to 11, in Room 33, Lowell.

Dr. Kurrelmeyer—Tuesdays from 10 to 11 in Room 30, Lowell, and Wednesdays from 11 to 12, in Room 31, Lowell.

Mr. Meister—Wednesdays from 11 to 12 in Room 21, Lowell.

NOTICES

WANTED.—A man to play traps in the Mandolin Club. Report at the Union, 4 P. M., Thursday.

NOTICE.—Show Posters will be on sale Friday where the Tech is sold. The price is 25 cents, and mailing tubes will be on sale with them at 5 cents each.

Will the person who took the proofs of the Musical Clubs from the Cage please return them? They are of no value to anybody but the members of the clubs.

Candidates for assistant manager of the track team for 1910 will please leave their names at the Cage for either the Manager or Assistant Manager.

WEIGHT SQUAD:—All candidates for the weight events on the track team will practice regularly on Tuesdays and Thursdays in the lot in front of the Lowell building at 4.15 P. M. Coach Kanaly will be on the spot at this time and place. There are chances for a number of new men in this department. No uniform other than school clothes is necessary. The events to be practiced here are the hammer and discus throws and the shot put.

CLASSIFIED ADS

Advertisements under this head are inserted at the rate of five cents a line of six words, payable in advance, and copy should be handed to the business manager the morning before publication day.

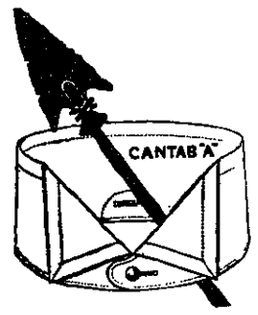
WANTED.—1500 TECH MEN to buy show posters. Fussers preferred. No references required. Apply at Rogers, Pierce, Engineering A, or the Cage on Friday.

LOST.—A diamond-shaped A. N. Fraternity Pin with the initials H. W. D. on the back. Finder please return to the Cage. H. D. Danser.

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